

<!--StartFragment-->RESULT 2

10/553509

SEQ ID NO.12

US-08-446-530-7

; Sequence 7, Application US/08446530

; Patent No. 5766851

; GENERAL INFORMATION:

; APPLICANT: Shuldiner, Alan R.

; APPLICANT: Walston, Jeremy

; APPLICANT: Silver, Kristi

; TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR OBESITY AND TYPE

; TITLE OF INVENTION: II DIABETES MELLITUS

; NUMBER OF SEQUENCES: 28

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 4225 Executive Square

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/446,530

; FILING DATE: 19-MAY-1995

; CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

; NAME: Haile, Lisa A.

; REGISTRATION NUMBER: 38,347

; REFERENCE/DOCKET NUMBER: 07265/048001

TELECOMMUNICATION INFORMATION:

; TELEPHONE: 619/678-5070

; TELEFAX: 619/678-5070

INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 17 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-08-446-530-7

Query Match 100.0%; Score 15; DB 2; Length 17;

Best Local Similarity 100.0%; Pred. No. 54;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CATCGCCTGGACTCC 15

|||||||||||||||

Db 1 CATCGCCTGGACTCC 15

<!--EndFragment-->

; Patent No. 5877283

; GENERAL INFORMATION:

; APPLICANT: Shuldiner, Alan R.

; APPLICANT: Walston, Jeremy

; APPLICANT: Silver, Kristi

; TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR OBESITY AND TYPE

; TITLE OF INVENTION: II DIABETES MELLITUS

; NUMBER OF SEQUENCES: 28

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 4225 Executive Square

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/097,562

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/446,530

; FILING DATE: 19-MAY-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Haile, Lisa A.

; REGISTRATION NUMBER: 38,347

; REFERENCE/DOCKET NUMBER: 07265/048001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 619/678-5070

; TELEFAX: 619/678-5070

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 17 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-09-097-562-7

Query Match 100.0%; Score 16; DB 2; Length 17;

Best Local Similarity 100.0%; Pred. No. 30;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CATGCCTGGACTCCG 16

Seq ID NO. 11

<!--StartFragment-->RESULT 2
AAT58989
ID AAT58989 standard; DNA; 17 BP.
XX
AC AAT58989;
XX
DT 04-AUG-1997 (first entry)
XX
DE Obesity and type II diabetes mellitus diagnosis nucleic acid probe.
XX
KW Hybridisation; polymerase chain reaction; beta3-adrenergic receptor;
KW beta3AR; ss.
XX
OS Synthetic.
XX
PN WO9636641-A1.
XX
PD 21-NOV-1996.
XX
PF 17-MAY-1996; 96WO-US007218.
XX
PR 19-MAY-1995; 95US-00446530.
XX
PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MED.
XX
PI Shuldiner AR, Walston J, Silver K, Roth J;
XX
DR WPI; 1997-012034/01.
XX
PT New isolated beta3-adrenergic receptor mutation - used to develop prods.
PT for the diagnosis and treatment of type II diabetes and/or obesity.
XX
PS Claim 17; Page 42; 51pp; English.
XX
CC The present sequence is a nucleic acid probe used in a method for
CC diagnosis of a subject having or at risk of having type II diabetes
CC mellitus and/or obesity. The method involves contacting a target nucleic
CC acid of a sample from the subject with a nucleic acid probe (preferably
CC the present sequence or that in AAT58990) that detects a mutation in the
CC beta3-adrenergic receptor (beta3AR) gene. The present sequence can also
CC be used in the treatment of subjects having or at risk of having type II
CC diabetes and/or obesity
XX
SQ Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 U; 0 Other;

167553509

SEQ ID NO. 11

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Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CATGCCCTGGACTCCG 16

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<!--StartFragment-->I76279

101553509

Seq ID No. 1

LOCUS I76279 1134 bp DNA linear PAT 03-APR-1998
DEFINITION Sequence 14 from patent US 5691155.
ACCESSION I76279
VERSION I76279.1 GI:3012433
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
1 (bases 1 to 1134)
AUTHORS Nahmias,C., Emorine,L.Jean. and Strosberg,A.Donny.
TITLE Nucleotide sequences encoding the murine .beta.3-adrenergic receptor and their applications
JOURNAL Patent: US 5691155-A 14 25-NOV-1997;
FEATURES Location/Qualifiers
source 1. .1134
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN

Query Match 100.0%; Score 61; DB 2; Length 1134;
Best Local Similarity 100.0%; Pred. No. 1.1e-11;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGA
Db 180 GGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGA
CTCGCTGGC 60
CTCGCTGGC 239
Qy 61 C 61
Db 240 C 240

RESULT 2

<!--EndFragment-->

<!--StartFragment-->RESULT 2

10/53509

SEQ ID NO', 1

I60415
LOCUS I60415 1227 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 7 from patent US 5656440.
ACCESSION I60415
VERSION I60415.1 GI:2478860
KEYWORDS .
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 1227)
Lenzen, G. and Kapoor, A.
TITLE Nucleotide sequences coding for the bovine .beta. .sub.3 -adrenergic receptor (AR.beta. .sub.3) and their applications
JOURNAL Patent: US 5656440-A 7 12-AUG-1997;
FEATURES Location/Qualifiers
source 1. .1227
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 61; DB 2; Length 1227;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGACTTCGCTGGC 60
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 180 GGCCATCGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGACTTCGCTGGC 239
Qy 61 C 61
|
Db 240 C 240

<!--EndFragment-->

<!--StartFragment-->RESULT 4
US-08-351-473B-7
; Sequence 7, Application US/08351473B
; Patent No. 5656440
; GENERAL INFORMATION:
; APPLICANT: LENZEN, GERLINDA
; APPLICANT: KAPOOR, ARCHANA
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR THE
; TITLE OF INVENTION: BOVINE BETA3-ADRENERGIC RECEPTOR AND THEIR APPLICATIONS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/351,473B
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 93 04670
; FILING DATE: 21-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR94/00447
; FILING DATE: 21-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 6639-001-0X PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1227 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)

10/553509.

SEQ ID NO. 1

S-08-351-473B-7

Query Match 100.0%; Score 61; DB 2; Length 1227;
Best Local Similarity 100.0%; Pred. No. 8.1e-13;
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GGCCATGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGACTTCGCTGGC 60
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Db          180 GGCCATGCCTGGACTCCGAGACTCCAGACCATGACCAACGTGTTCGTGACTTCGCTGGC 239

Qy          61 C 61
           |
Db          240 C 240
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<!--EndFragment-->